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NOTICE OF ALLOWANCE AND FEE(S) DUE

50258

7590

02/09/2009

SCHLUMBERGER TECHNOLOGY CORPORATION 14910 AIRLINE ROAD ROSHARON, TX 77583 EXAMINER
FITZGERALD, JOHN P

ART UNIT PAPER NUMBER

2856 DATE MAILED: 02/09/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/575.029	12/15/2006	Younes Jalali	103.0010US/PCT	5945	

TITLE OF INVENTION: SYSTEM AND METHOD FOR DETERMINING A FLOW PROFILE IN A DEVIATED INJECTION WELL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/11/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includir ed below or directed oth	ng the Patent, advance nerwise in Block 1, by	e orders and notification y (a) specifying a new c	of m	naintenance fees wil condence address; a	ll be ind/or	mailed to the current (b) indicating a sepa	corre rate	spondence address as 'FEE ADDRESS" for
CURRENT CORRESPONDI	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of addre	ss)	Fee(s	s) Transmittal, This	certifi	icate cannot be used f	or an	nestic mailings of the y other accompanying formal drawing, must
50258 SCHLUMBER 14910 AIRLINE ROSHARON, T			ATION	I here State addre trans	Certify that this s Postal Service witessed to the Mail smitted to the USPTO	ficate Fee(s th suff Stop : O (57:	of Mailing or Trans) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	mission deposit class above ate in	on osited with the United s mail in an envelope e, or being facsimile dicated below.
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR	A	ATTOI	RNEY DOCKET NO.	СО	NFIRMATION NO.
10/575,029	12/15/2006		Younes Jalali			10	3.0010US/PCT		5945
			NING A FLOW PROFILE					_	DATE DIE
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nonprovisional	NO	\$1510	\$300		\$0		\$1810		05/11/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	S					
FITZGERAL 1. Change of corresponde		2856	073-152330		ntent front page, list				
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED O			e or agents OR, alter (2) the name of a registered attorney 2 registered patent listed, no name wi	the names of up to 3 registered patent attorneys agents OR, alternatively, the name of a single firm (having as a member a istered attorney or agent) and the names of up to egistered patent attorneys or agents. If no name is ed, no name will be printed.					
PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assign pletion of this form is I	nee data will appear on t NOT a substitute for filin; (B) RESIDENCE: (G	he pa g an a CITY	tent. If an assignee assignment. and STATE OR CC	OUNT	RY)		
Please check the appropri	iate assignee category or	categories (will not be	e printed on the patent):	Ч	Individual 🖵 Corj	porati	on or other private gro	up er	itity Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.	b. Applicant is no				TITY status. See 37 Cl		
note: The Issue Fee and interest as shown by the I	records of the United Sta	ites Patent and Tradem	ark Office.	uall th	к аррисані; а regist	crea a	morney of agent; of the	ic assi	guee of other party in
Authorized Signature					Date				
Typed or printed name					Registration No	·			
an application. Confident submitting the completed his form and/or suggesti	tiality is governed by 35 1 application form to the ions for reducing this but	U.S.C. 122 and 37 CI USPTO. Time will v rden, should be sent to	ation is required to obtain FR 1.14. This collection is ary depending upon the to the Chief Information Co R COMPLETED FORM	is esti indivi Officer	mated to take 12 mi dual case. Any com r. U.S. Patent and T	inutes iment radem	to complete, including on the amount of times of the complete. U.S. Dense to the complete of t	g gatl ne yo artme	hering, preparing, and ou require to complete nt of Commerce, P.O.

Alexandria, Virginia 22313-1450.

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10/575,029	12/15/2006	Younes Jalali	103.0010US/PCT 5945		
50258 75	590 02/09/2009		EXAM	INER	
SCHLUMBERG	ER TECHNOLOGY	FITZGERALD, JOHN P			
14910 AIRLINE R		ART UNIT	PAPER NUMBER		
ROSHARON, TX 77583			2856		
		DATE MAILED: 02/09/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 191 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 191 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/575,029	JALALI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	JOHN FITZGERALD	2856	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not included nication will be mailed in due cours	se. THIS
2. ☑ The allowed claim(s) is/are <u>1-22,24-32 and 34</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application	n No	rom the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXA	MINER'S AMENDMENT or NOTIC	
5. CORRECTED DRAWINGS (as "replacement sheets") mus		(PTO 040)	
(a) ☐ including changes required by the Notice of Draftspers	•	(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet in the state of the sheet.	s Amendment / Comment or .84(c)) should be written on th	e drawings in the front (not the back	κ) of
6. ☐ DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATE	RIAL must be submitted. Note	the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No./I 7. ☐ Examiner's /	ormal Patent Application Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowand	ce

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Art Unit: 2856

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-22, 24-32 and 34 are allowed over the Prior Art of record.
- 2. The following is an examiner's statement of reasons for allowance: The primary reasons for allowance of independent claim 1 is the inclusion of the specific method step of employing a well model utilizing an initial temperature of an injection fluid (prior to injection) and the temperature profile in combination with the other recited method steps in a method of determining characteristics of an injection well and determining a flow profile. As to independent claims 13, 18 and 27, the inclusion of the specific limitation and/or method step limitation of employing measured data of the reservoir (formation fluid) *thermal conductivity* (emphasis added) in a system and/or method of determining characteristics, specifically a flow profile, of a horizontal/deviated (i.e. other than vertical) well/wellbore. None of the Prior Art teach the above limitations and/or method steps.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Fitzgerald whose telephone number is (571) 272-2843. The examiner can normally be reached on Monday-Friday from 7:00 AM to 3:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams,

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Art Unit: 2856

can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center

/John Fitzgerald/ Examiner, Art Unit 2856 2/2/09

(EBC) at 866-217-9197 (toll-free).